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S2	513	715/505-508.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2004/11/24 15:47
S7	3204	707/1.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2004/11/24 15:48
S9	2224	707/102.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2004/11/24 15:47
S12	558	715/505-508.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2004/11/24 15:54
S13	134	715/509.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2004/11/24 15:47
S14	2585	707/102.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2004/11/24 15:47
S15	64	form field color (tag or flag)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2004/11/24 15:47
S16	129	TABLE field color (tag or flag)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2004/11/24 15:47
S17	14	S16 FORMAT$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2004/11/24 15:47

S18	3562	707/1.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2004/11/24 15:48
S19	308	715/503-504.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	OFF	2004/11/24 16:04
S20	2	(("6400806") or ("5689641")).PN.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2004/11/24 16:07

	1	Document ID	Issue Date	Title	Current OR	Inventor	2
1		US 20030204 420 A1	2003103 0	Healthcare database management offline backup and synchronization system and method	705/3	Wilkes, Gordon J. et al.	
2		US 20020143 764 A1	2002100 3	Data management system and method for intercepting and changing database instructions between a database back end and an application front end	707/8	Martin, Andrew R. et al.	
3		US 6683618 B1	2004012 7	Method and apparatus for creating and performing graphics operations on device-independent bitmaps	345/619	Patrick; Stuart Raymond et al.	
4		US 6525743 B1	2003022 5	Method and apparatus for creating and performing graphics operation on device-independent bitmaps	345/619	Patrick; Stuart Raymond et al.	
5		US 5764518 A	1998060 9	Self reproducing fundamental fabricating machine system	700/95	Collins; Charles M.	

	1	Document ID	Issue Date	Title	Current OR	Inventor	2
6		NN9301265	19930101	Asynchronous Queued I/O Processor Architecture.			
7		NN8506117	19850601	PC Composite Screen Display			
8		NN76122753	19761201	Preparation of Magnetic Particles and Fluids by Chemical Reaction in a Magnetic Field. December 1976.			

	1	Document ID	Issue Date	Title	Current OR	Inventor	2
1		US 20040205185 A1	20041014	Method and apparatus for dynamically displaying real world data in a browser setting	709/224	Leonik, Thomas E.	
2		US 20040199435 A1	20041007	Method and apparatus for remote location shopping over a computer network	705/27	Abrams, David Hardin et al.	
3		US 20040143573 A1	20040722	System, method and article of manufacture for advanced information gathering for targetted activities	707/3	Burkey, Chad et al.	
4		US 20040132294 A1	20040708	Manufacturing method of fine structure, optical element, integrated circuit, and electronic instrument	438/689	Takagi, Kenichi et al.	
5		US 20040109086 A1	20040610	Decoding system, video color converter and method thereof	348/453	Mathew, Reji et al.	

Terms used **FORMAT??? CELL? SPREADSHEET? VALUE?** Found **244** of **147,060**

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1 A methodology for the design and implementation of virtual interfaces
Verlynda Dobbs, Sandra A. Mamrak
October 1985 **Proceedings of the 1985 ACM annual conference on The range of computing : mid-80's perspective: mid-80's perspective**
Full text available: pdf(1.23 MB) Additional Information: full citation, references, citings, index terms

2 Implementation of an APL—based spreadsheet manager
Tom Puckett
January 1987 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL: APL in transition**, Volume 17 Issue 4
Full text available: pdf(1.13 MB) Additional Information: full citation, abstract, references, index terms

This paper describes the implementation of the STSC Spreadsheet Manager for users of STSC's APL*PLUS® PC System. The discussion is primarily from the standpoint of the product's internal workings. Important aspects are selection and interfacing of the languages to be used in the implementation (APL, C, and assembler), compatibility with Lotus® data structures, mappings between data in the APL and Lotus environments, manipulation of data in a spreadsheet context, and separation of fu ...

3 Operation transforms for a distributed shared spreadsheet
Christopher R. Palmer, Gordon V. Cormack
November 1998 **Proceedings of the 1998 ACM conference on Computer supported cooperative work**
Full text available: pdf(1.00 MB) Additional Information: full citation, references, citings, index terms

Keywords: distributed spreadsheets, groupware, operation transforms

4 An ethnographic study of distributed problem solving in spreadsheet development
Bonnie A. Nardi, James R. Miller
September 1990 **Proceedings of the 1990 ACM conference on Computer-supported cooperative work**
Full text available: pdf(1.08 MB) Additional Information: full citation, abstract, references, citings, index terms

In contrast to the common view of spreadsheets as "single-user" programs, we have found that spreadsheets offer surprisingly strong support for cooperative development of a wide variety of applications. Ethnographic interviews with spreadsheet users showed that nearly

all of the spreadsheets used in the work environments studied were the result of collaborative work by people with different levels of programming and domain expertise. Cooperation among spreadsheet users was spont ...

5 The growth of software skill: a longitudinal look at learning & performance
Erik Nilsen, HeeSen Jong, Judith S. Olson, Kevin Biolsi, Henry Rueter, Sharon Mutter
May 1993 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Full text available: pdf(782.75 KB) Additional Information: full citation, abstract, references, citings, index terms

This research follows a group of users over time (16 months) as they progress from novice towards expert in their use of Lotus 1-2-3. Quantitative and qualitative measures of performance are compared with expert users having over three years of experience. The results indicate that the motor aspects of performance are relatively stable over time, while improvement in the cognitive components of the skill are dependent on aspects of the menu structure and how many things must be retrieved fr ...

Keywords: GOMS, menu design, models of the user, user-interface design issues

6 Spreadsheet structure inspection using low level access and visualisation
Daniel Ballinger, Robert Biddle, James Noble
February 2003 **Proceedings of the Fourth Australian user interface conference on User interfaces 2003 - Volume 18**

Full text available: pdf(92.69 KB) Additional Information: full citation, abstract, references, citings, index terms

Spreadsheets are an extremely common form of end-user programming used for many applications from student marks to accounting for global multinationals. Ways of studying the structure of a spreadsheet itself is normally constrained to the tools provided in the spreadsheet software. We wanted to explore ways to use new visualisations for spreadsheets, and this paper documents our approach.

Keywords: end user programming, spreadsheets, visualisation

7 An experimental study of people creating spreadsheets
Polly S. Brown, John D. Gould
July 1987 **ACM Transactions on Information Systems (TOIS)**, Volume 5 Issue 3

Full text available: pdf(1.08 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Nine experienced users of electronic spreadsheets each created three spreadsheets. Although participants were quite confident that their spreadsheets were accurate, 44 percent of the spreadsheets contained user-generated programming errors. With regard to the spreadsheet creation process, we found that experienced spreadsheet users spend a large percentage of their time using the cursor keys, primarily for the purpose of moving the cursor around the spreadsheet. Users did not spend a lot of ...

8 A generalised spreadsheet verification methodology
Nick Randolph, John Morris, Gareth Lee
January 2002 **Australian Computer Science Communications , Proceedings of the twenty-fifth Australasian conference on Computer science - Volume 4**, Volume 24 Issue 1

Full text available: pdf(843.91 KB) Additional Information: full citation, abstract, references, index terms

Although spreadsheets have been around for over thirty years, we are only just realising their importance. Most companies use spreadsheets in their decision-making processes, but rarely employ any form of testing. This paper shows how an "all-uses" test adequacy

technique can be integrated into Microsoft's Excel. The modular technique adopted makes the implementation spreadsheet package independent. It also includes a user interface, to assist developers specify test cases and a technique for re ...

Keywords: errors, software testing, spreadsheets, verification

9 Object behavior analysis

Kenneth S. Rubin, Adele Goldberg

September 1992 **Communications of the ACM**, Volume 35 Issue 9

Full text available: pdf(9.99 MB) Additional Information: full citation, references, citings, index terms

Keywords: analysis, modeling

10 Using spreadsheets to teach computer science

Dermot Shinners-Kennedy

February 1986 **ACM SIGCSE Bulletin , Proceedings of the seventeenth SIGCSE technical symposium on Computer science education**, Volume 18 Issue 1

Full text available: pdf(356.94 KB) Additional Information: full citation, abstract, references, index terms, review

This paper describes a research project which commenced recently at the NIHE, L. The project investigates the use of micro-computer software to teach aspects of computer science. Spreadsheets are the subject of this report. The potential of spreadsheet systems for teaching assembler programming is considered. We outline a model for enabling students to acquire fundamental computer science concepts using a simplistic "language machine". The language machine is embedded in a progr ...

11 Operational transformation: Operational transformation for collaborative word processing

David Sun, Steven Xia, Chengzheng Sun, David Chen

November 2004 **Proceedings of the 2004 ACM conference on Computer supported cooperative work**

Full text available: pdf(308.07 KB) Additional Information: full citation, abstract, references, index terms

Operational Transformation (OT) is a technique originally invented for supporting consistency maintenance in collaborative text editors. Word processors have much richer data types and more comprehensive operations than plain text editors. Among others, the capability of updating attributes of any types of object is an essential feature of all word processors. In this paper, we report an extension of OT for supporting a generic Update operation, in addition to Insert< ...

Keywords: group undo, multi-versioning, operational transformation

12 Gardeners and gurus: patterns of cooperation among CAD users

Michelle Gantt, Bonnie A. Nardi

June 1992 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Full text available: pdf(1.53 MB) Additional Information: full citation, abstract, references, citings, index terms

We studied CAD system users to find out how they use the sophisticated customization and extension facilities offered by many CAD products. We found that users of varying levels of expertise collaborate to customize their CAD environments and to create programmatic extensions to their applications. Within a group of users, there is at least one local expert who provides support for other users. We call this person a local developer. The local

developer is a fellow domain ex ...

Keywords: CAD, cooperative work, end user programming

13 Full-screen, scrollable APL2 spreadsheet input/output editor

Peter A. W. Lewis

March 1993 **ACM SIGAPL APL Quote Quad**, Volume 23 Issue 3

Full text available: pdf(473.70 KB) Additional Information: full citation, abstract, index terms

A full-screen, scrollable, spreadsheet-like editor based on IBM's APL2 32-bit interpreter for 386/486-based microcomputers is described. It is used for entering, examining, analyzing, editing and printing data. Mixed numeric and character arrays can be read in from or written out to formatted DOS files (ASCII) or comma-delimited DOS files. Alternatively, a bulk mode input facility allows for rapid direct data entry, or data can be entered, examined and edited cell-by-cell in the usual way. A fac ...

14 The OASIS standard for office documents

Marco Fioretti

March 2004 **Linux Journal**, Volume 2004 Issue 119

Full text available: html(20.56 KB) Additional Information: full citation, abstract

A common file format lets apps competeon features and ease of use.

15 Using Excel for scientific calculations

Bob Fisk

September 1991 **Proceedings of the 19th annual ACM SIGUCCS conference on User services**

Full text available: pdf(605.25 KB) Additional Information: full citation, references, index terms

16 Requirements for a layered software architecture supporting cooperative multi-user interaction

Flavio De Paoli, Andrea Sosio

May 1996 **Proceedings of the 18th international conference on Software engineering**

Full text available: pdf(1.16 MB) Additional Information: full citation, abstract, references, index terms

Publisher Site

Layered interactive systems lend themselves to be adapted for cooperation if inter-layer communication is charged to separated connectors. Point-to-point connectors can be replaced with cooperative connectors multiplexing and demultiplexing I/O between a particular layer and multiple instances of the next lower one. For this technique to be most effective, some general guidelines should be followed that support the design of good quality software where discrimination between heterogeneous functi ...

Keywords: CSDL framework, cooperative connectors, cooperative multi-user interaction, cooperative systems, cooperative systems design, groupware, inter-layer communication, interactive systems, layered software architecture, multi-access systems, software engineering

17 A spreadsheet interface for visualization exploration

T. J. Jankun-Kelly, Kwan-Liu Ma

October 2000 **Proceedings of the conference on Visualization '00**

Full text available: pdf(547.98 KB) Additional Information: full citation, index terms

Keywords: knowledge representation, scientific visualization, spreadsheets, user interfaces, visualization systems, volume rendering

18 The Xxl Spreadsheet Project
April 1999 **Linux Journal**

Full text available: html(22.62 KB) Additional Information: full citation, abstract, references, index terms

This paper is a general presentation of the Xxl project and of its latest version, describing the choices that drove the design of Xxl and its main charactertistics

19 Using spreadsheet software to support metric's life cycle activities
P. Kokol
May 1989 **ACM SIGPLAN Notices**, Volume 24 Issue 5

Full text available: pdf(700.71 KB) Additional Information: full citation, abstract, index terms

The application of the spreadsheet software in the field of software measurement technology is disccussed. A model of metric's life cycle is defined and used together with the spreadsheet software to develop a new class of complexity metrics, called Hybrid metrics. Theirs evaluation has shown that they are supperior to most other complexity metrics in estimating development times and allocating testing resources. Finally, the spreadsheet and conventional programming are compared, and it is not u ...

20 Applications: Expanding the utility of spreadsheets through the integration of visual programming and user interface objects
Trevor J. Smedley, Philip T. Cox, Shannon L. Byrne
May 1996 **Proceedings of the workshop on Advanced visual interfaces**

Full text available: pdf(1.22 MB) Additional Information: full citation, abstract, references, citings

One of the primary uses of spreadsheets is in forecasting future events. This involves investigating "what-if" scenarios --- creating a spreadsheet, experimenting with different values for inputs, and observing how they effect the computed values. Unfortunately, current spreadsheets provide little support for this type of interaction. Data values must be typed in, and computed values can be observed only as numbers, or on simple charts. In this work we extend a spreadsheet which makes use of a v ...

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Best 200 shown Relevance scale

21 The design of an object-oriented collaborative spreadsheet with version control and history management

David A. Fuller, Sergio T. Mujica, José A. Pino

March 1993 **Proceedings of the 1993 ACM/SIGAPP symposium on Applied computing: states of the art and practice**

Full text available: pdf(811.82 KB) Additional Information: full citation, references, index terms

Keywords: history management, interfaces, object-oriented, spreadsheet, version control

22 Matching data storage to application needs

Dawson Dean, Richard Zippel

January 1995 **ACM SIGOPS Operating Systems Review**, Volume 29 Issue 1

Full text available: pdf(477.29 KB) Additional Information: full citation, index terms

23 Short Talks: Breakdown visualization: multiple foci polyarchies of values and attributes

Sandeep Prabhakar, Nathan Conklin, Chris North, Muthukumar Thirunavukkarasu, Anusha Dandapani, Ganesh Panchanathan

April 2002 **CHI '02 extended abstracts on Human factors in computing systems**

Full text available: pdf(326.81 KB) Additional Information: full citation, abstract, references

Breakdown analysis involves decomposing data into sub-groups to allow for comparison and identification of problem areas. Good analysis requires the ability to group data based on attributes or values. Breakdown Visualization provides a mechanism to support this analysis through user guided decomposition and exploration of tabular data with a polyarchy structure. This is useful in domains such as sports statistics and corporate financial reports. Breakdown Visualization utilizes a spreadsheet fo ...

Keywords: breakdown, financial visualization, multiple foci, polyarchy structure, visual decomposition, visualization

24 EQL — the query language you never heard of

Charles D. Havener

December 1998 **ACM SIGPLAN Notices**, Volume 33 Issue 12

Full text available: pdf(550.76 KB) Additional Information: full citation, abstract, index terms

This paper describes a novel but unknown query language for large parallel database applications. EQL is compiled to C++, the new universal assembly language. Using YACC and CO techniques, EQL is representative of projects students of compiler design might implement in the business world.

25 Integrating user interface agents with conventional applications

Henry Lieberman

January 1997 **Proceedings of the 3rd international conference on Intelligent user interfaces**

Full text available: pdf(965.95 KB) Additional Information: full citation, references, citings, index terms

Keywords: agents, machine learning, programming by demonstration, programming by example, scripting languages, user interface

26 Teaching computer science concepts and problem solving with a spreadsheet

Mary Veronica Kolesar, Vicki H. Allan

March 1995 **ACM SIGCSE Bulletin , Proceedings of the twenty-sixth SIGCSE technical symposium on Computer science education**, Volume 27 Issue 1

Full text available: pdf(408.38 KB) Additional Information: full citation, references, citings, index terms

27 Toward a logical/physical theory of spreadsheet modeling

Tomás Isakowitz, Shimon Schocken, Henry C. Lucas

January 1995 **ACM Transactions on Information Systems (TOIS)**, Volume 13 Issue 1

Full text available: pdf(2.76 MB) Additional Information: full citation, abstract, references, citings, index terms, review

In spite of the increasing sophistication and power of commercial spreadsheet packages, we still lack a formal theory or a methodology to support the construction and maintenance of spreadsheet models. Using a dual logical/physical perspective, we identify four principal components that characterize any spread sheet model: schema, data, editorial, and binding. We present a factoring algorithm for identifying and extracting these components ...

Keywords: model management

28 A spreadsheet interface for logic programming

M. Spenke, C. Beilken

March 1989 **ACM SIGCHI Bulletin , Proceedings of the SIGCHI conference on Human factors in computing systems: Wings for the mind**, Volume 20 Issue SI

Full text available: pdf(594.47 KB) Additional Information: full citation, abstract, references, citings, index terms

We present PERPLEX, a programming environment intended for the end-user. In its design, the concepts of logic programming and spreadsheets are combined. Thus, on the one hand, logic programming becomes an interactive, incremental task where the user gets direct visual feedback, on the other hand, functionality and scope of a conventional spreadsheet program are considerably extended. In order to perform calculations and queries, constraints are imposed on the contents of the spreadsheet cel ...

29 Using Excel as a front end to APL+Win

Eric Baelen

September 2002 **ACM SIGAPL APL Quote Quad**, Volume 33 Issue 1

Full text available: pdf(846.17 KB) Additional Information: full citation, abstract

This article will discuss how we might use an Excel Workbook as a front end for an APL+Win application. The goal is to allow a user to start an Excel Worksheet, have it launch APL+Win as a COM object and pass control to make APL a client to that session of Excel. We want to minimize the number of Excel Visual Basic Macros we need to write. For each Excel Worksheet, APL will populate it, protect it, validate input, create input forms, and save the results in a database.

30 A scalable method for deductive generalization in the spreadsheet paradigm

Margaret Burnett, Sherry Yang, Jay Summet

December 2002 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 9 Issue 4

Full text available: pdf(2.31 MB) Additional Information: full citation, abstract, references, index terms

In this paper, we present an efficient method for automatically generalizing programs written in spreadsheet languages. The strategy is to do generalization through incremental analysis of logical relationships among concrete program entities from the perspective of a particular computational goal. The method uses deductive dataflow analysis with algebraic back-substitution rather than inference with heuristics, and there is no need for generalization-related dialog with the user. We present the ...

Keywords: Forms/3, Human-computer interaction, concrete programming, generalization, graphical programming, spreadsheet languages

31 Interactive specification of flexible user interface displays

Scott E. Hudson, Shamim P. Mohamed

July 1990 **ACM Transactions on Information Systems (TOIS)**, Volume 8 Issue 3

Full text available: pdf(1.54 MB) Additional Information: full citation, abstract, references, citings, index terms, review

One of the problems with conventional UIMSs is that very often there is no graphical way to specify interfaces. This paper describes OPUS, the user interface editor of the Penguims UIMS. This system allows the presentation component of graphical user interfaces to be specified interactively in a graphical notation without explicit programming. The Penguims UIMS supports an underlying model of computation based loosely on spreadsheets. In particular, it supp ...

32 Spreadsheet analysis and design

Boaz Ronen, Michael A Palley, Henry C. Lucas

February 1989 **Communications of the ACM**, Volume 32 Issue 1

Full text available: pdf(860.11 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Although spreadsheet programs and microcomputers have revolutionized information processing in organizations, a significant number of serious errors have been reported through the misuse of this technology. This article discusses several different contexts for the development of spreadsheet models and presents structured design techniques for these models.

33 User interface specification using an enhanced spreadsheet model

Scott E. Hudson

July 1994 **ACM Transactions on Graphics (TOG)**, Volume 13 Issue 3

Full text available: pdf(2.01 MB) Additional Information: full citation, abstract, references, citings, index terms, review

This paper describes a new interactive environment for user interface specification which is based on an enhanced spreadsheet model of computation. This environment allows sophisticated graphical user interfaces with dynamic feedback to be implemented with little or no explicit programming. Its goal is to support user interface specification by nonprogramming experts in human factors, visual design, or the application domain. In

addition, the system is designed to allow sophisticated end-us ...

Keywords: automatic display update, constraint systems, direct manipulation, end-user programming, interface builders, prototype-instance-based inheritance, semantic feedback, user interface management systems

34 Object-oriented spreadsheets: the analytic spreadsheet package

Kurt W. Piersol

June 1986 **ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications**, Volume 21 Issue 11

Full text available: pdf(538.86 KB) Additional Information: full citation, abstract, references, citings, index terms

The ASP package, a spreadsheet implemented in Smalltalk-80, is discussed. A description of the unique data manipulation features of ASP is given. A discussion of how these features arise from the Smalltalk-80 environment is included, with emphasis on features not common to all object oriented languages.

35 Introductory tutorials: Spreadsheet simulation: spreadsheet simulation

Andrew F. Seila

December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation**

Full text available: pdf(123.87 KB) Additional Information: full citation, abstract, references

"Spreadsheet simulation" refers to the use of a spreadsheet as a platform for representing simulation models and performing the simulation experiment. This tutorial explains the reasons for using this platform for simulation, discusses why this is frequently an efficient way to build simulation models and execute them, describes how to setup a spreadsheet simulation, and finally suggests when a spreadsheet is not an appropriate platform for simulation.

36 Creating charts by demonstration

Brad A. Myers, Jade Goldstein, Matthew A. Goldberg

April 1994 **Proceedings of the SIGCHI conference on Human factors in computing systems: celebrating interdependence**

Full text available: pdf(1.22 MB) Additional Information: full citation, references, citings, index terms

Keywords: business charts, data visualization, demonstrational interfaces, interactive techniques

37 Spreadsheet-based interactive graphics: from prototype to tool

Nicholas Wilde, Clayton Lewis

March 1990 **Proceedings of the SIGCHI conference on Human factors in computing systems: Empowering people**

Full text available: pdf(810.86 KB) Additional Information: full citation, abstract, references, citings, index terms

The NoPumpG prototype [7,8] suggested that the spreadsheet model of computation could simplify the creation of some types of interactive graphical application when compared with other approaches. We report here experience in developing an enhanced follow-on system, NoPumpII, and describe three applications developed using it. We conclude that (1) the potential advantages of the spreadsheet model are realized in this application experience, (2) revisions to the prototype design have permitte ...

38 Testing student micro computer skills through direct computer use
Michael M. Delaney
February 1989 **ACM SIGCSE Bulletin , Proceedings of the twentieth SIGCSE technical symposium on Computer science education**, Volume 21 Issue 1
Full text available: pdf(513.71 KB) Additional Information: full citation, abstract, citings, index terms, review

This paper introduces the concept of testing students' microcomputer skills through direct computer use. Techniques are discussed which make it feasible for the instructor to grade the disk and printout that are produced by each student. The process can be generally applied to testing many different skill areas, and has been effectively used for tests on DOS and utilities, wordprocessing, spreadsheet work, and data base. Practical examples of test creation and grading of spreadsheet tests a ...

39 Reviewed papers: Excel grader and access grader
Thomas G. Hill
June 2004 **ACM SIGCSE Bulletin**, Volume 36 Issue 2
Full text available: pdf(596.92 KB) Additional Information: full citation, abstract, references

Excel Grader is an automated grader for use by instructors in Microsoft Excel and Microsoft Office application courses. Excel Grader performs static analysis on Microsoft Excel workbooks. The program compares a student workbook with the instructor's correct version of the workbook. The student workbook is marked and a grade report is embedded. Excel Grader includes reports and a tool for plagiarism detection. Access Grader is a companion product that grades Microsoft Access assignments. Access G ...

Keywords: automatic grading, microsoft excel access automated grader

40 Risk analysis: Crystal ball software tutorial: crystal ball professional introductory tutorial
Lawrence I. Goldman
December 2002 **Proceedings of the 34th conference on Winter simulation: exploring new frontiers**
Full text available: pdf(312.31 KB) Additional Information: full citation, abstract

Crystal Ball® 2000 Professional Edition is a suite of easy-to-use Microsoft® Excel® add-in software that helps you analyze the risks and uncertainties associated with your spreadsheet models. The suite includes analysis tools for Monte Carlo simulation (Crystal Ball), time-series forecasting (CB Predictor), and optimization (OptQuest) as well as developer kits for building custom interfaces and processes. Spreadsheets alone are inadequate for assessing the probability of an event ...